

Global Tropics Hazards And Benefits Outlook

August 6, 2013

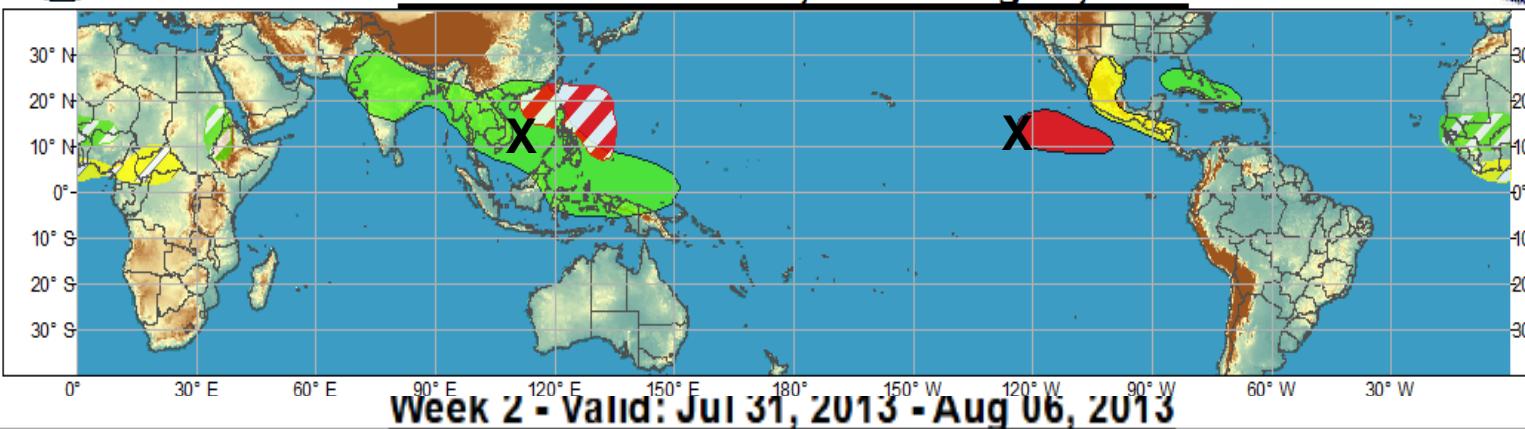
Brad Pugh

Outline

1. Review of Recent Conditions
2. Synopsis of Climate Modes
3. GTH Outlook and Forecast Discussion
4. Connections to U.S. Impacts

Week 1 - Valid: Jul 31, 2013 - Aug 06, 2013

Outlook Review



Week 2 - Valid: Jul 31, 2013 - Aug 06, 2013

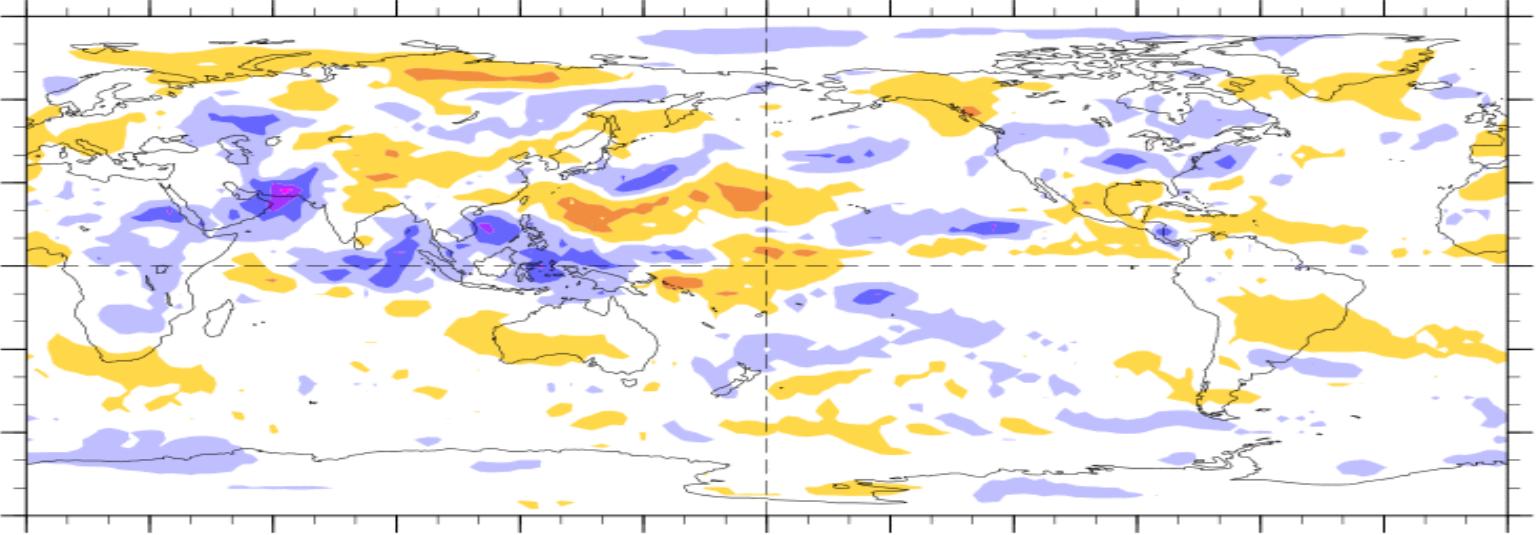


7-Day Average OLR Anomaly

2013/07/29 - 2013/08/04

Cool shading
More clouds/rain

Warm shading
Less clouds/rain



Synopsis of Climate Modes

ENSO:

- ENSO-neutral conditions are favored to continue through Northern Hemisphere fall 2013

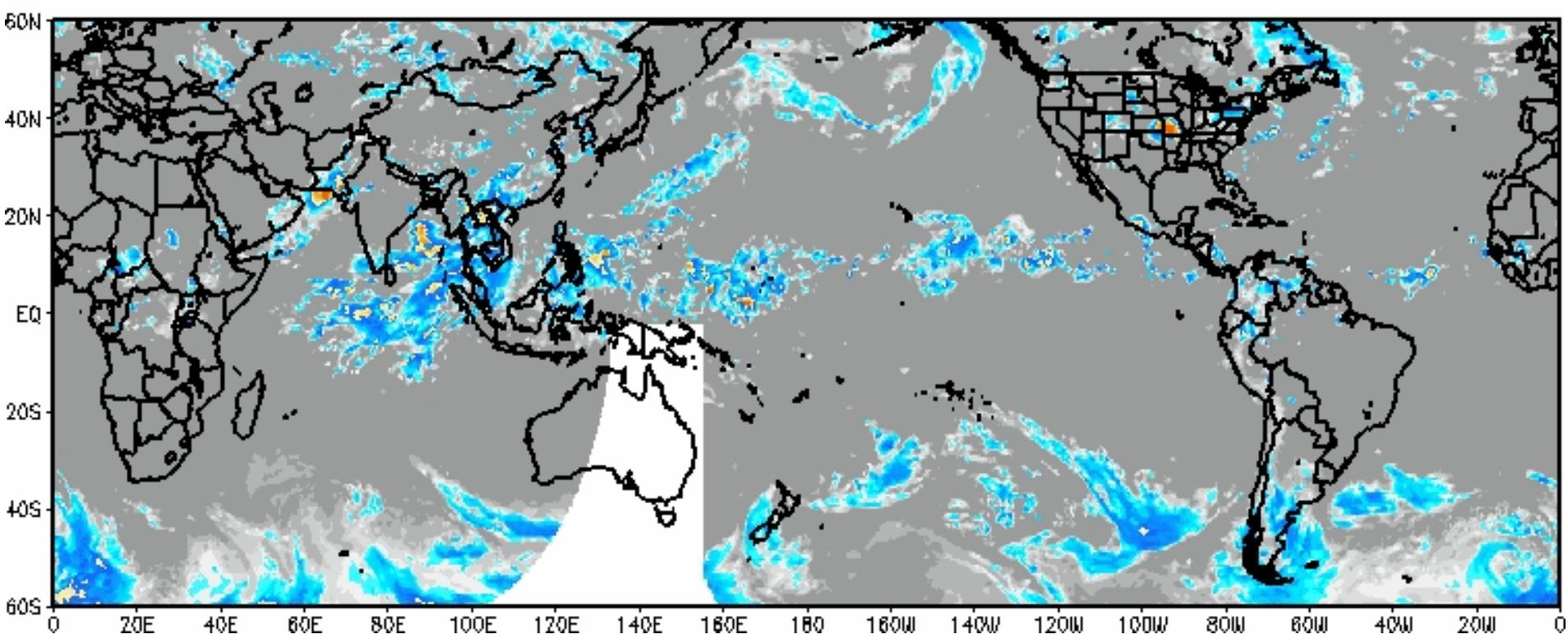
MJO and other subseasonal tropical variability:

- The MJO remained weak for the second consecutive week. Other modes of variability are evident in the observations, and play a role in the current outlook.
- Most dynamical and statistical model MJO index forecasts indicate little to no amplitude in the MJO during the next 2 weeks.
- Enhanced tropical cyclone formation probabilities are forecast to continue over the western and eastern Pacific for the upcoming two weeks. Late in week-2, TC formation may become more favorable across the main development region (MDR) of the tropical Atlantic.

Extratropics:

- The MJO is not likely to have a major impact on the circulation over the CONUS.

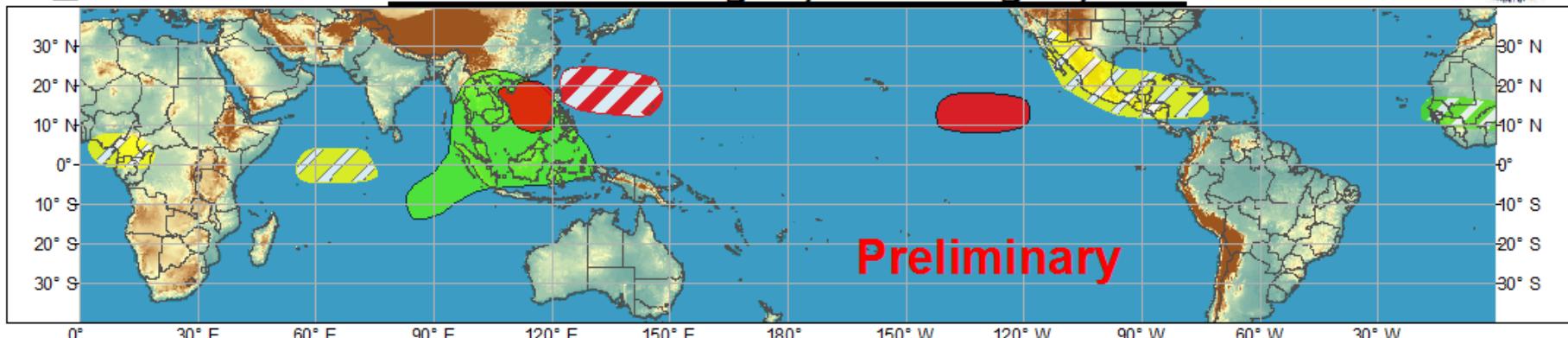
IR Temperatures
0900 UTC 03 AUG 2013



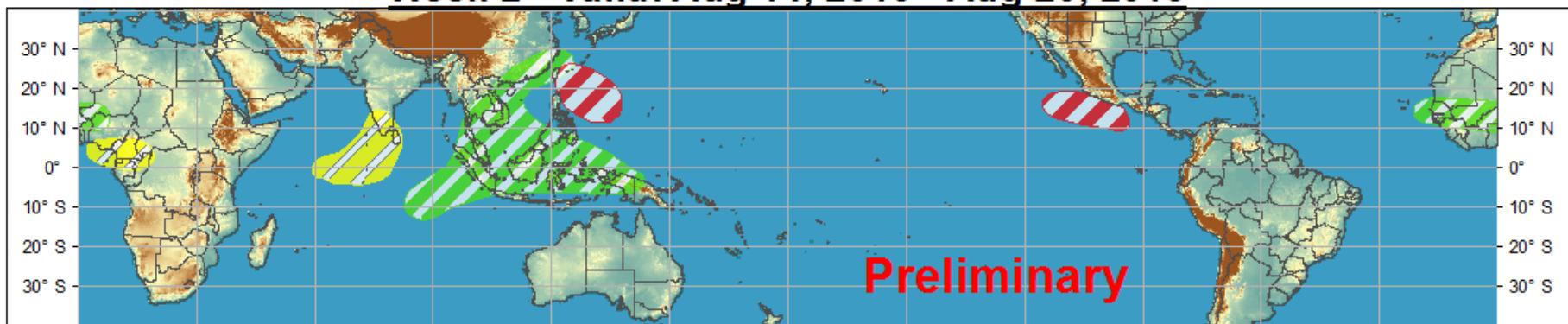


Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Aug 07, 2013 - Aug 13, 2013



Week 2 - Valid: Aug 14, 2013 - Aug 20, 2013



Produced: 08/06/2013

Forecaster: Pugh

Confidence

High Moderate

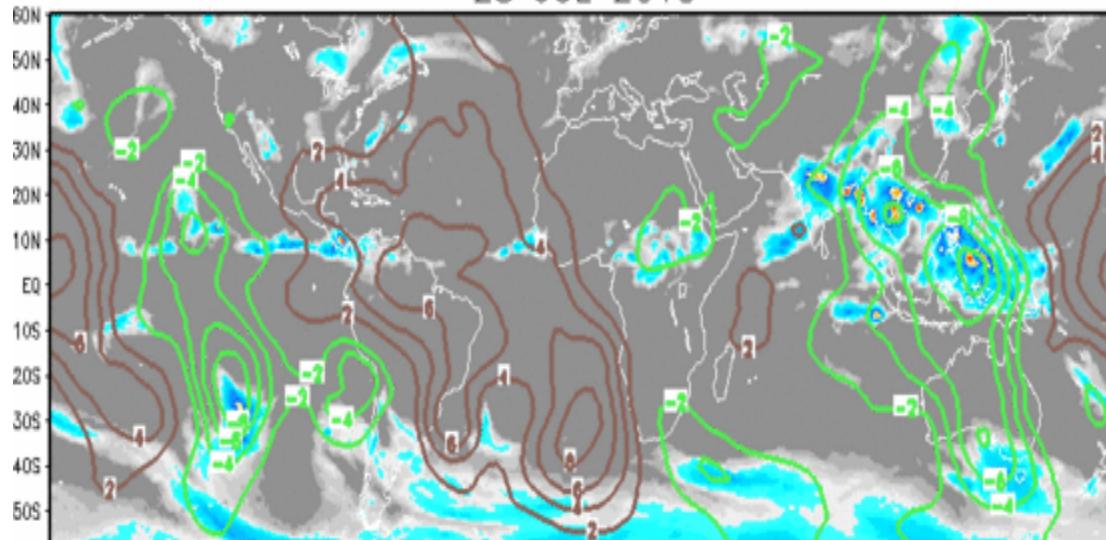
Tropical Cyclone Formation		Development of a tropical cyclone that eventually reaches tropical storm/cyclone strength.
Above-average rainfall		Weekly total rainfall in the upper third of the historical range.
Below-average rainfall		Weekly total rainfall in the lower third of the historical range.
Above-normal temperatures		7-day mean temperatures in the upper third of the historical range.
Below-normal temperatures		7-day mean temperatures in the lower third of the historical range.

Product is updated once per week. The product targets broad scale conditions integrated over a 7-day period for US interests only.
Consult your local responsible forecast agency.

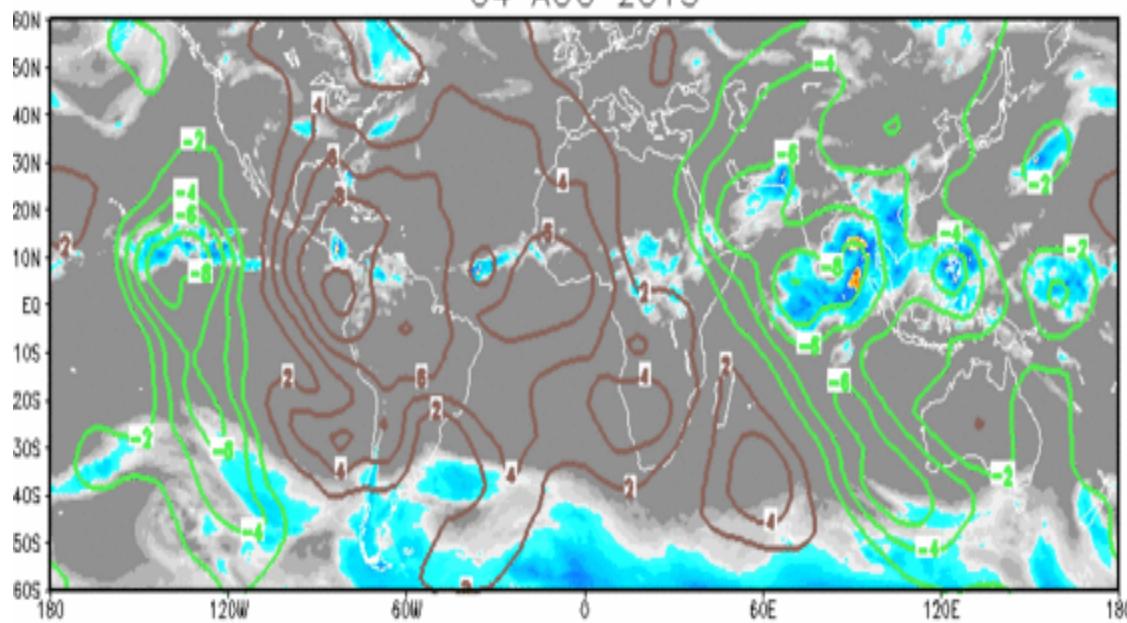
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

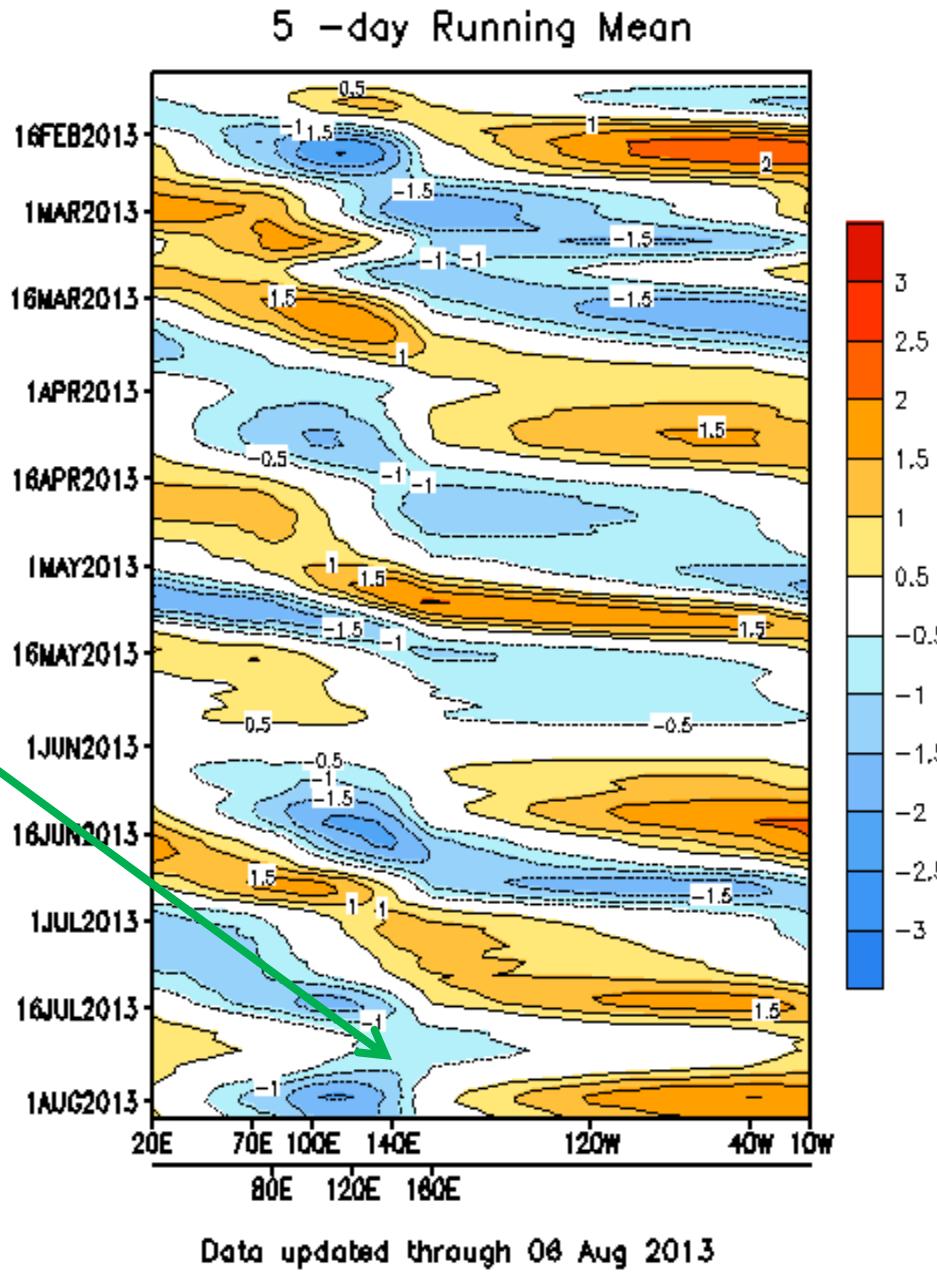
28 JUL 2013



04 AUG 2013

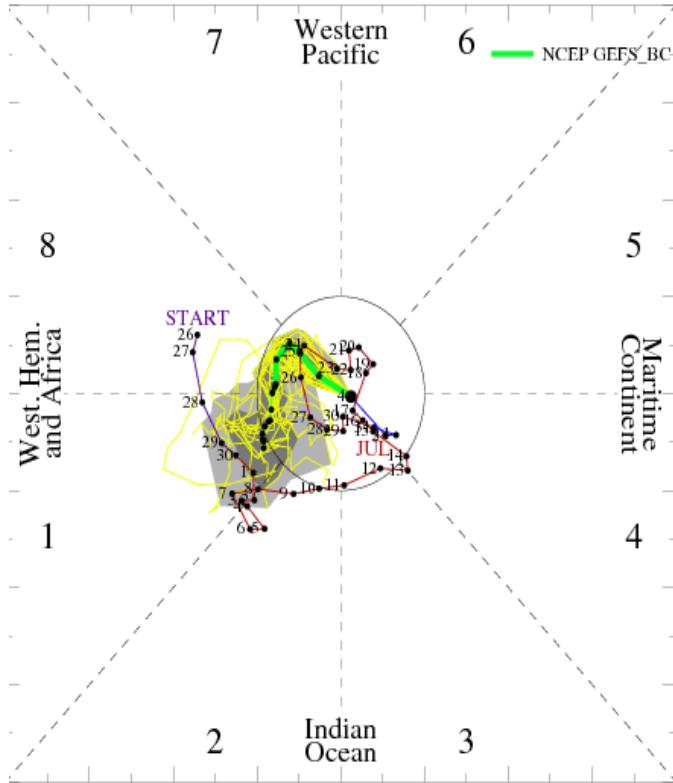


The breakdown
of the MJO signal
is apparent on
the CPC MJO
index during late
July



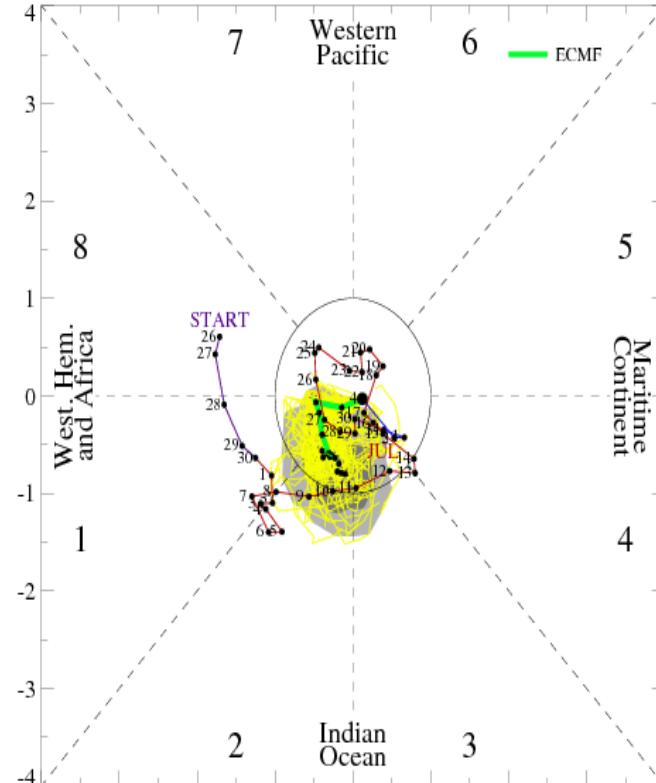
MJO Observation/Forecast

MJO Index Forecast for 05Aug2013-19Aug2013



GFS

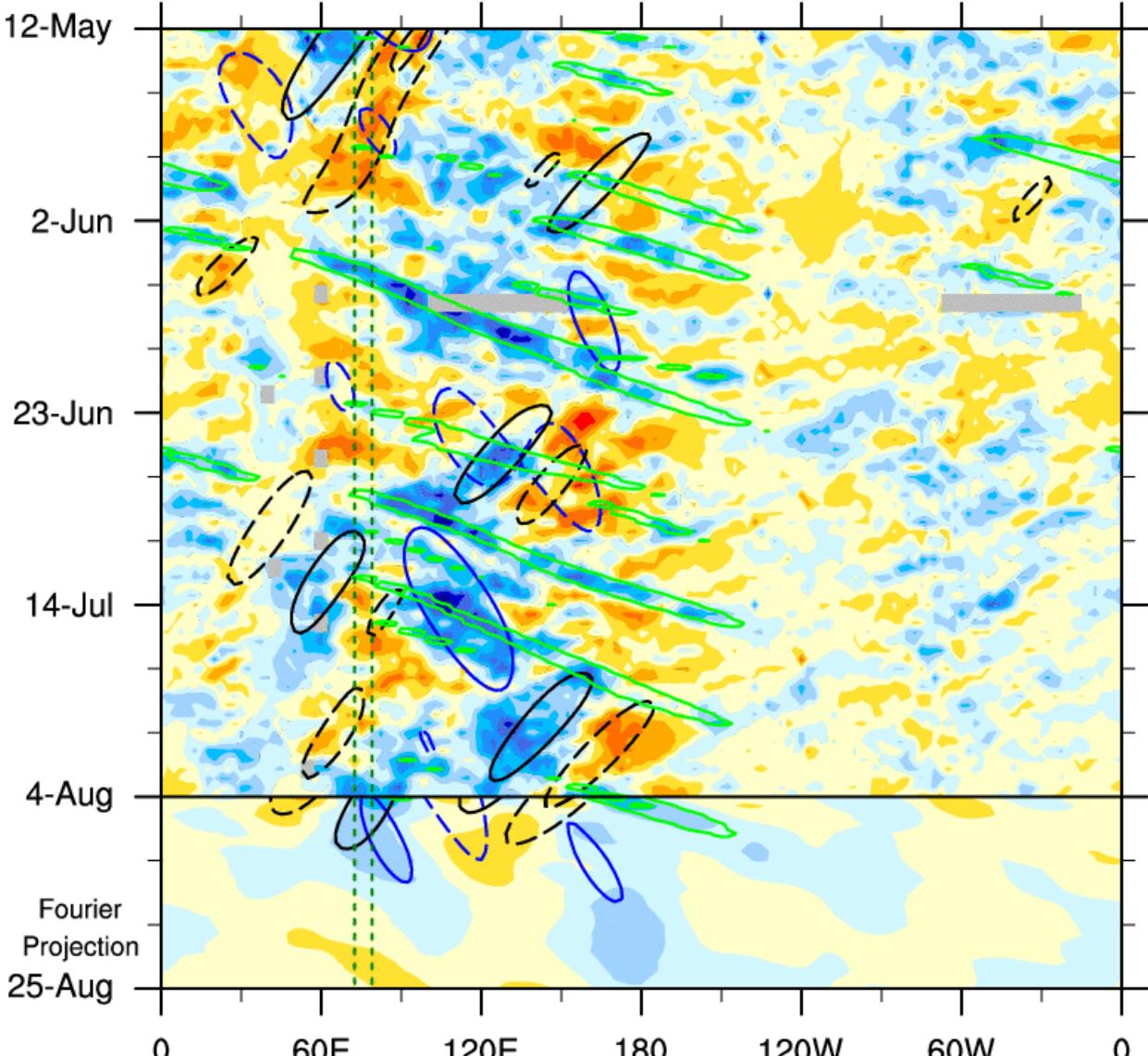
MJO Index Forecast for 05Aug2013-19Aug2013



ECMWF

OLR anomalies: 7.5°S - 7.5°N

12-May-2013 to 4-Aug-2013 + 21-day Fourier Projection

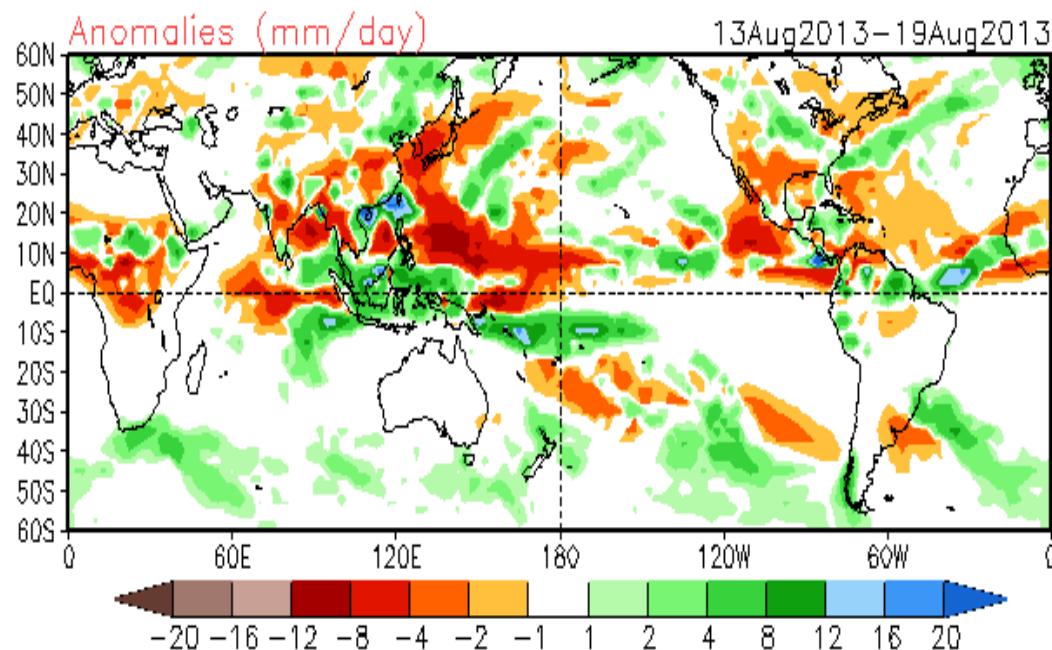
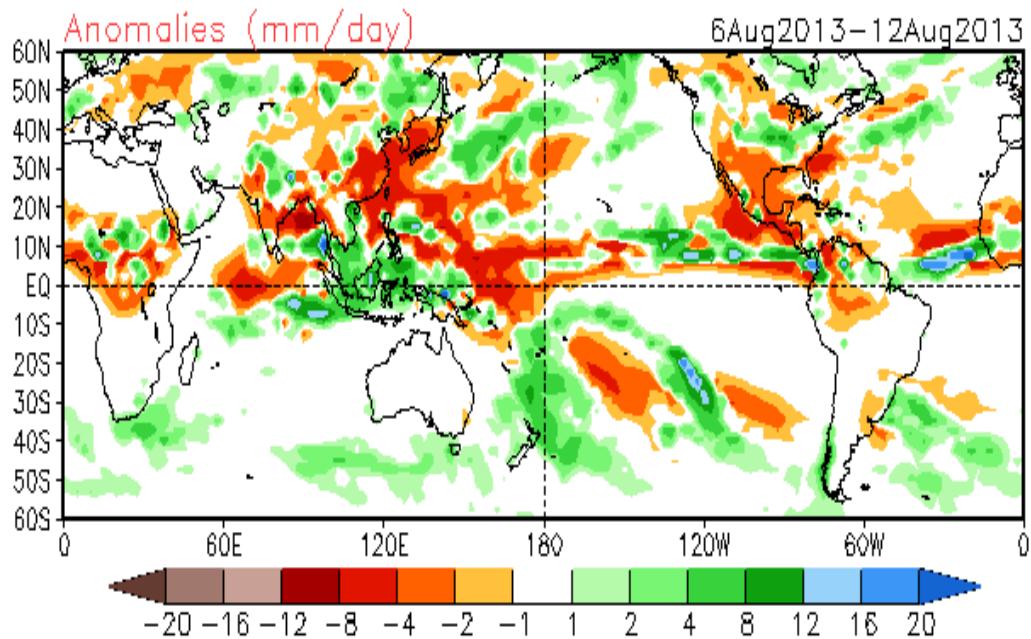


MJO not likely to have any major effects during the next two weeks.

Atmospheric Kelvin wave to affect east Pacific (green line).

MJO (blue, CINT=12); ER (black, CINT=12); Kelvin (green, CINT=12)

GFS Forecast



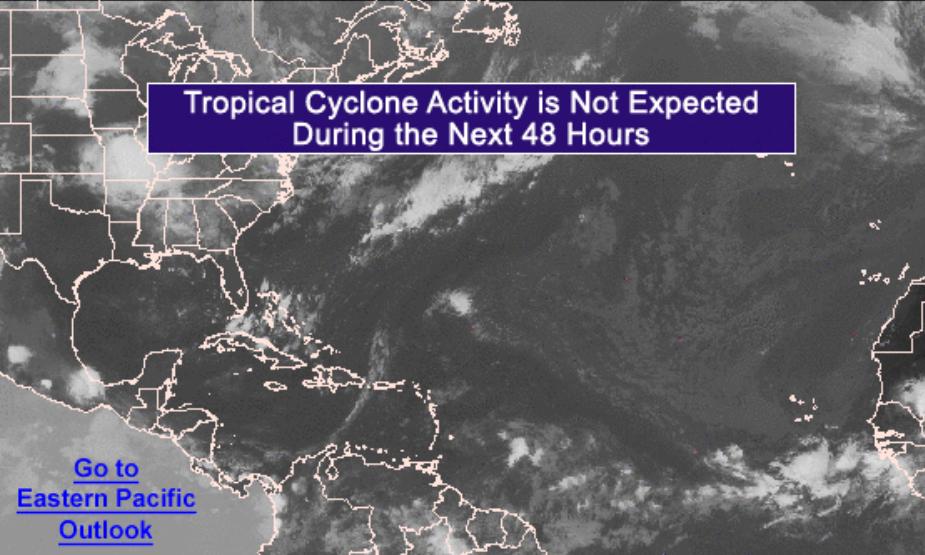


Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Tropical Cyclone Activity is Not Expected
During the Next 48 Hours



800 AM EDT TUE AUG 6 2013

Satellite Image: 0652 AM EDT

Outlined areas denote current position of systems discussed in the Tropical Weather Outlook. Color indicates probability of tropical cyclone formation within 48 hours.

Low <30% Medium 30-50% High >50%

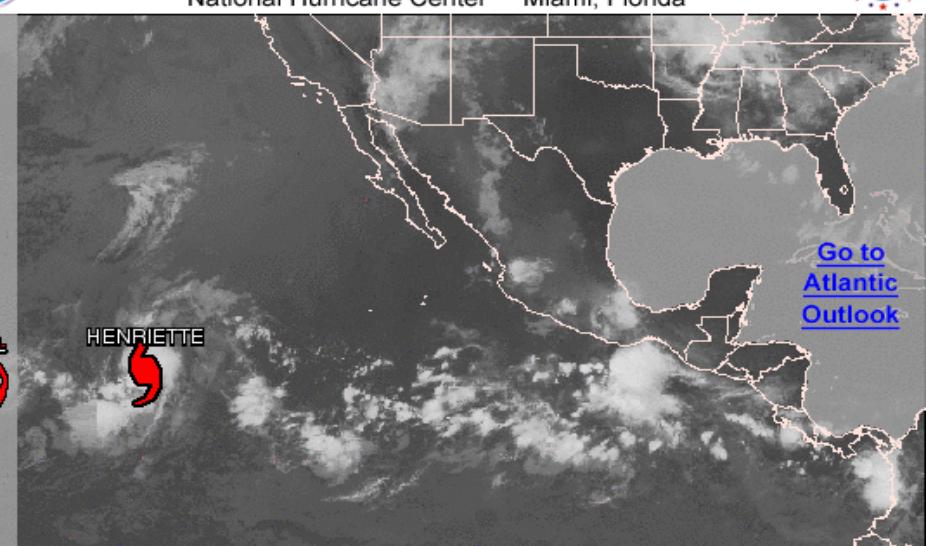


Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Go to Central Pacific Hurricane Center



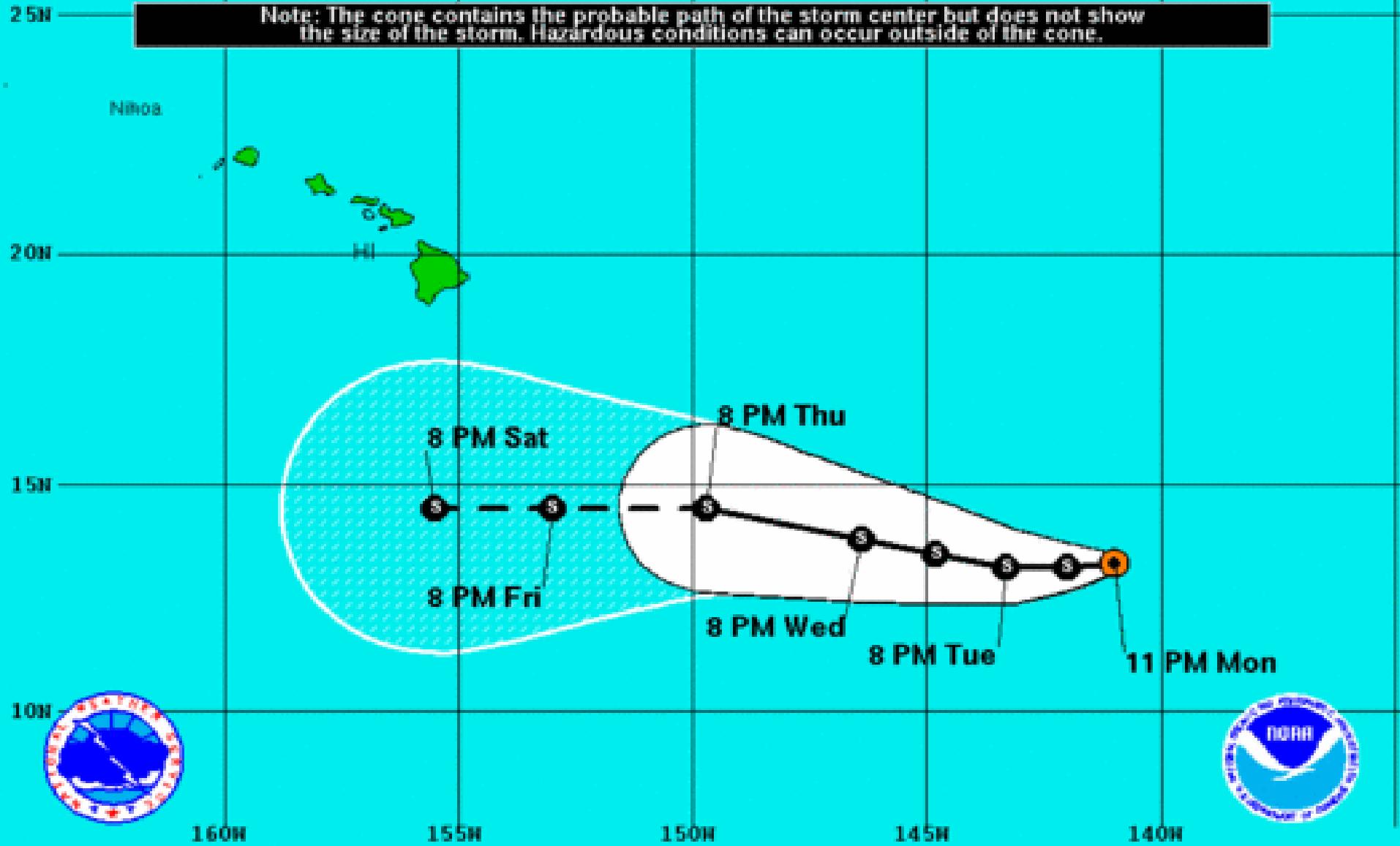
500 AM PDT TUE AUG 6 2013

Satellite Image: 0622 AM PDT

Outlined areas denote current position of systems discussed in the Tropical Weather Outlook. Color indicates probability of tropical cyclone formation within 48 hours.

Low <30% Medium 30-50% High >50%

Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Tropical Storm Gil
Monday August 5, 2013
11 PM HST Advisory 28
NWS Central Pacific Hurricane Center

Current Information: ●
Center Location 13.3 N 141.0 W
Max Sustained Wind 40 mph
Movement W at 9 mph

Forecast Positions:
● Tropical Cyclone ○ Post-Tropical
Sustained Winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

Potential Track Area:



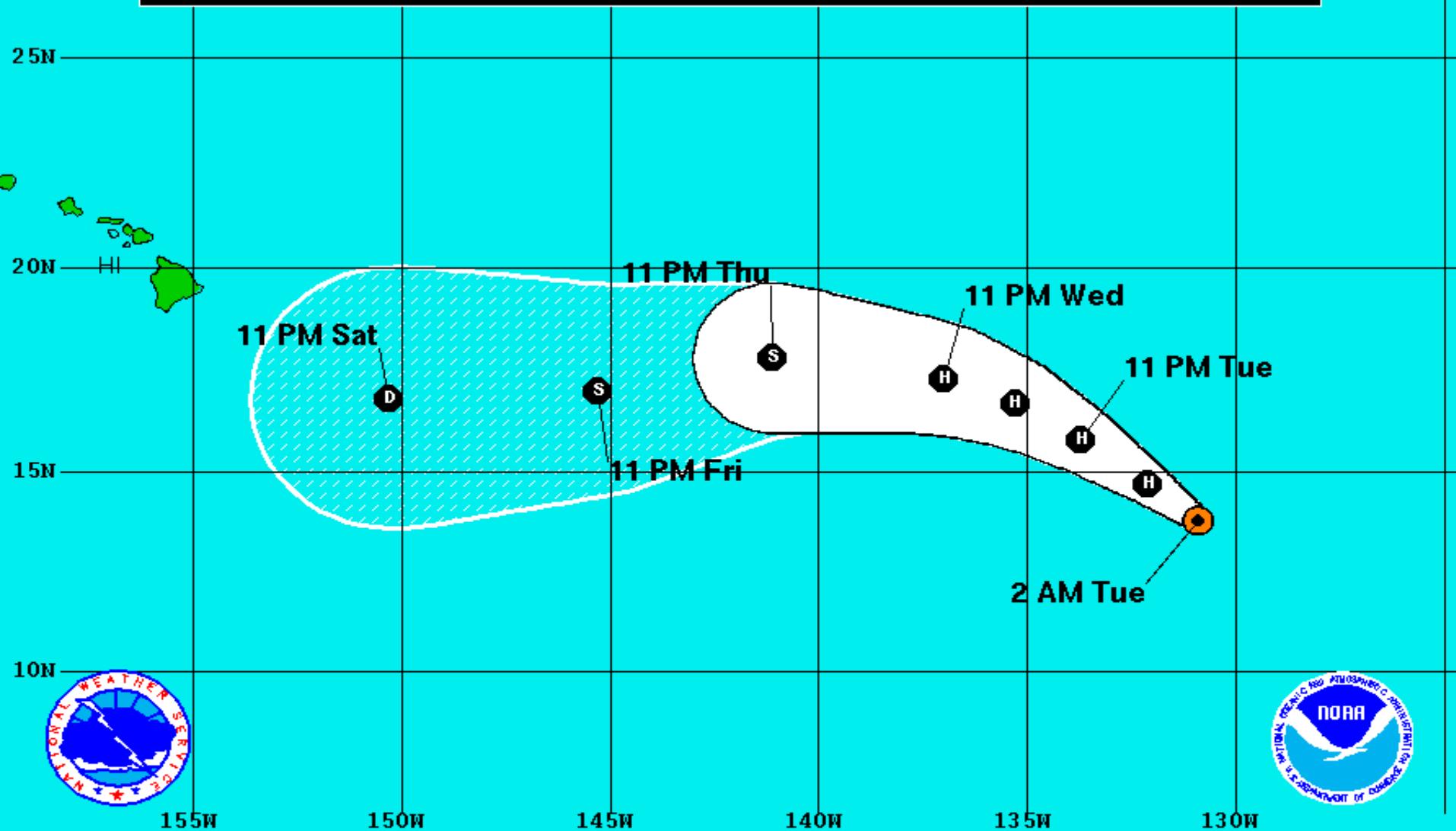
Watches:



Warnings:



Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Hurricane Henriette
Tuesday August 6, 2013
2 AM PDT Advisory 12
NWS National Hurricane Center

Current Information: ●
Center Location 13.8 N 130.9 W
Max Sustained Wind 75 mph
Movement WNW at 10 mph

Forecast Positions:
● Tropical Cyclone ○ Post-Tropical
Sustained Winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

Potential Track Area:

Watches:

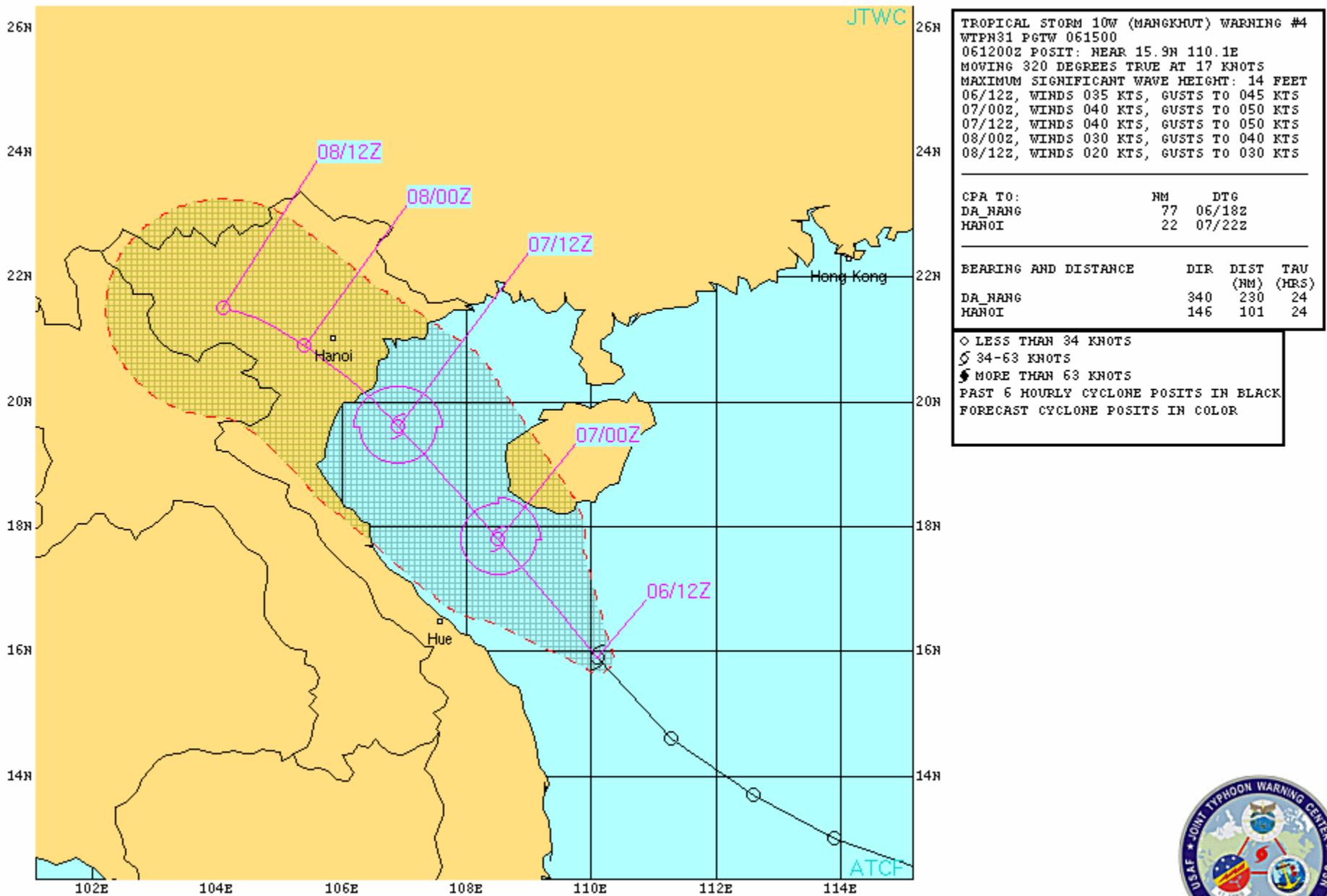
Warnings:

Day 1-3 Day 4-5

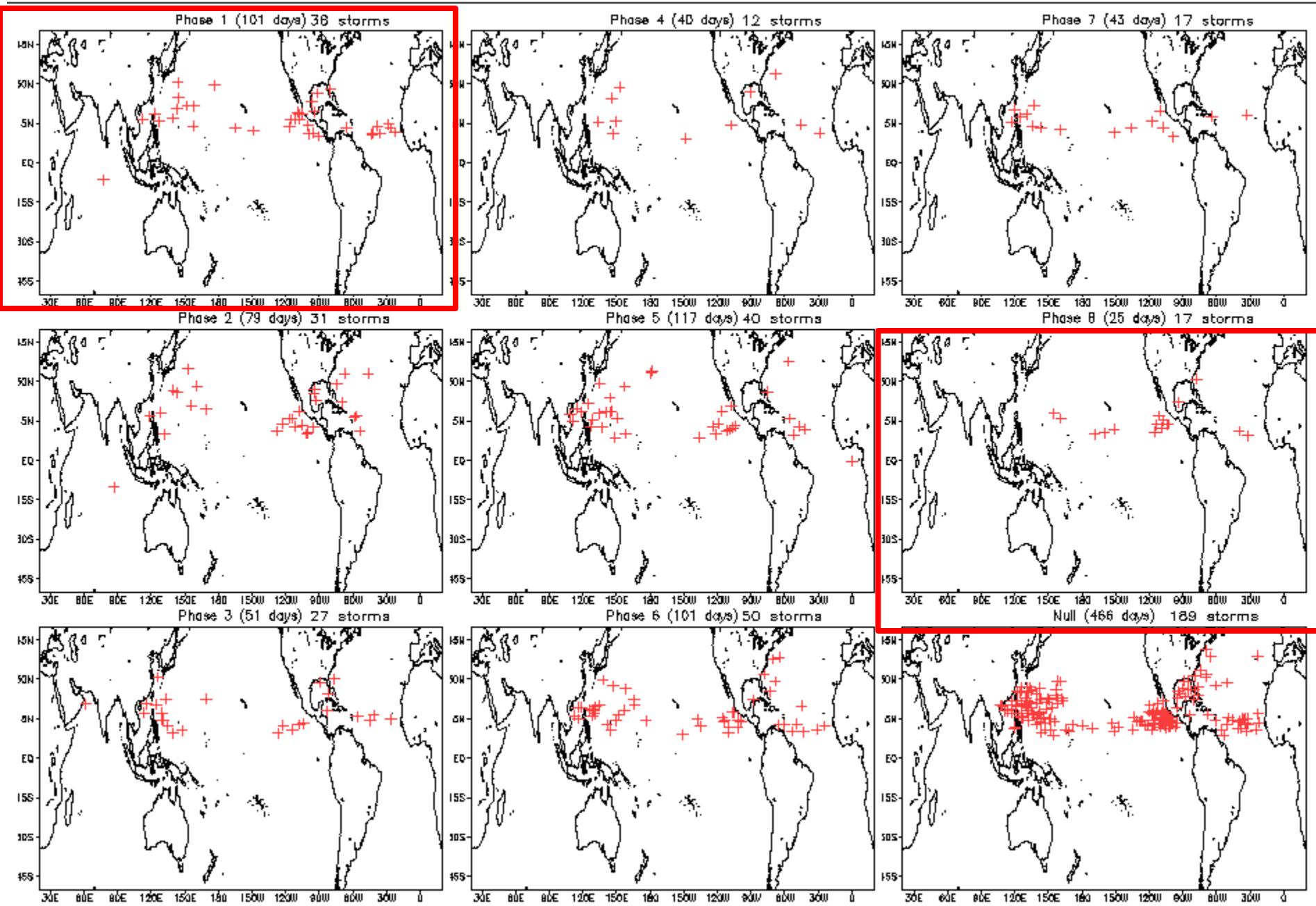
Hurricane Trop.Storm

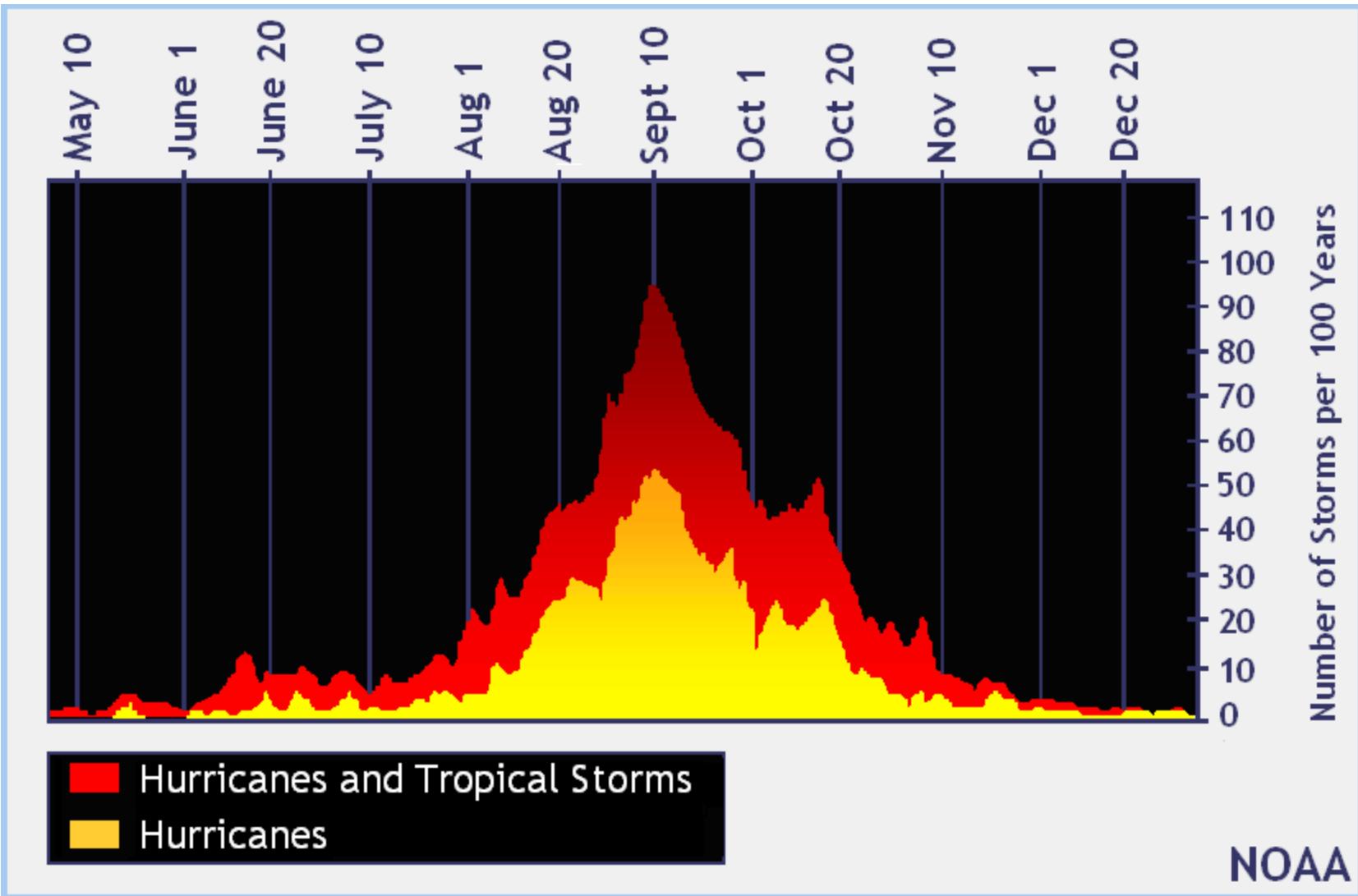
Hurricane Trop.Storm

Joint Typhoon Warning Center



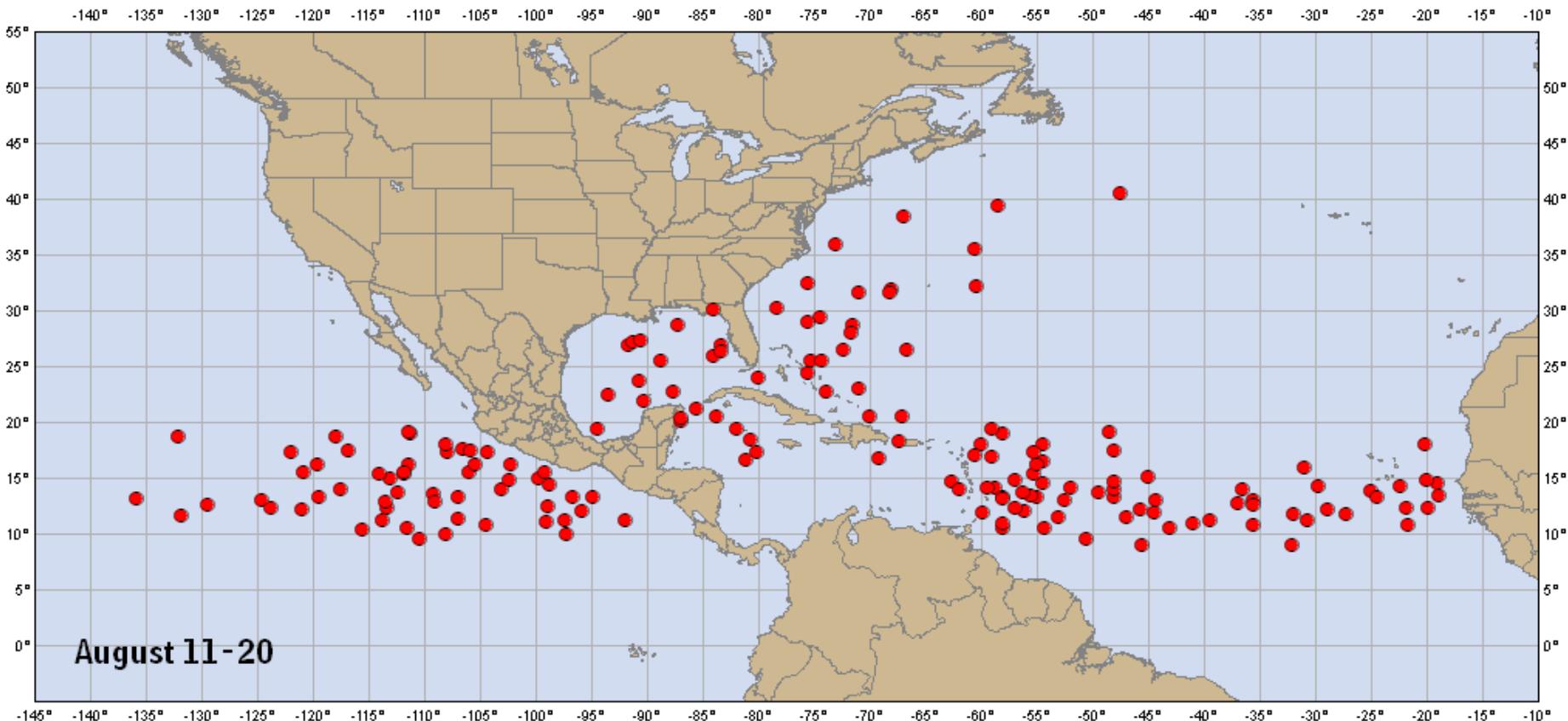
August Tropical Storm Formation by MJO phase

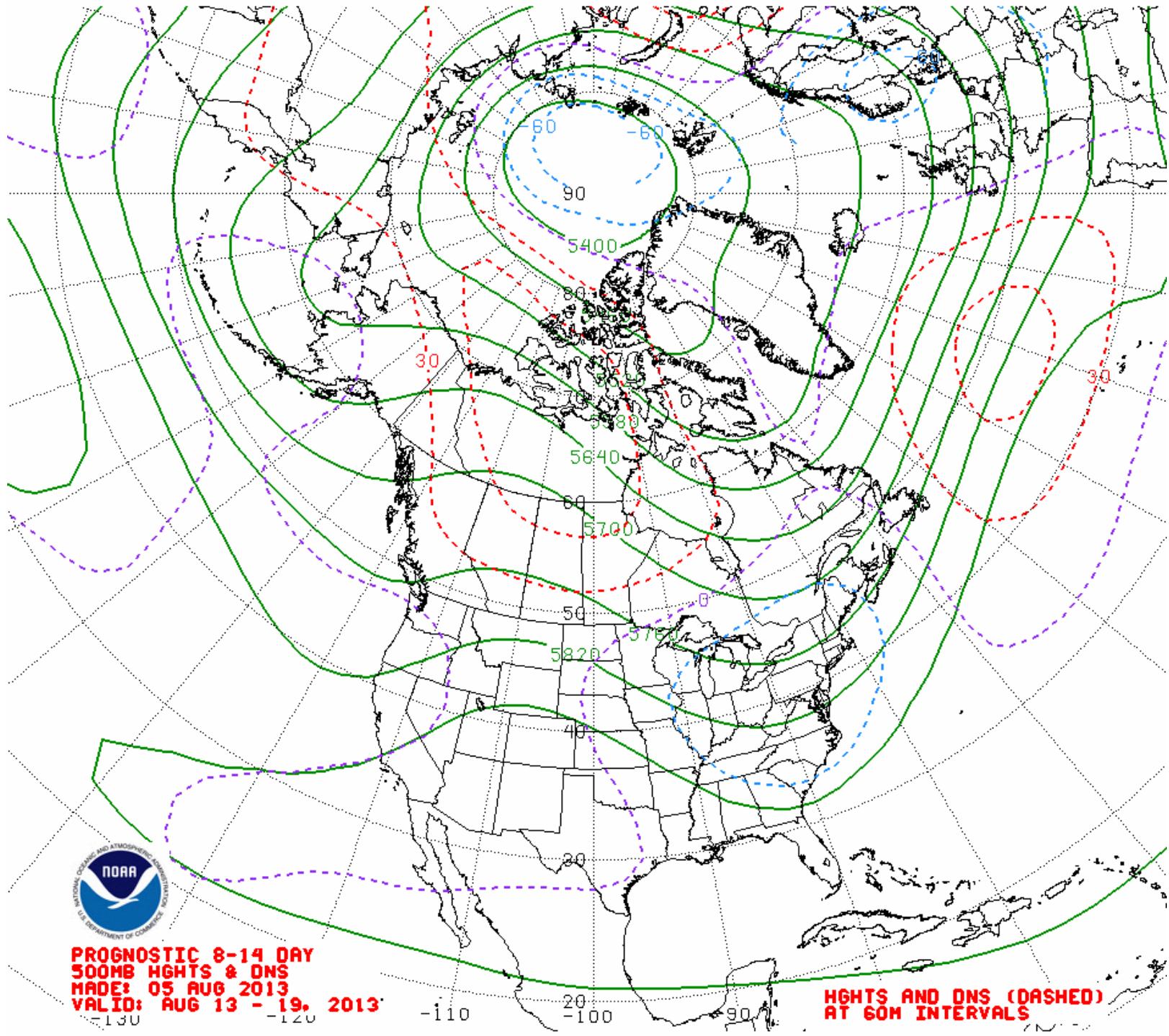




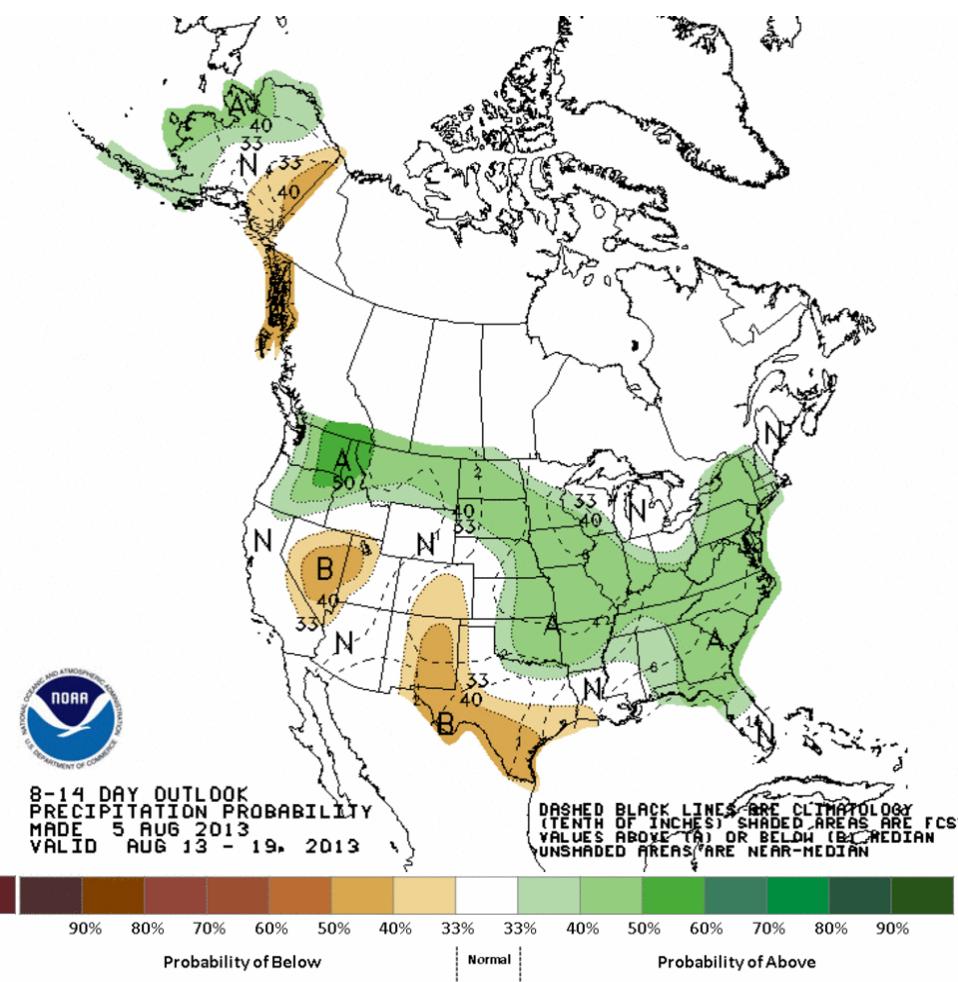
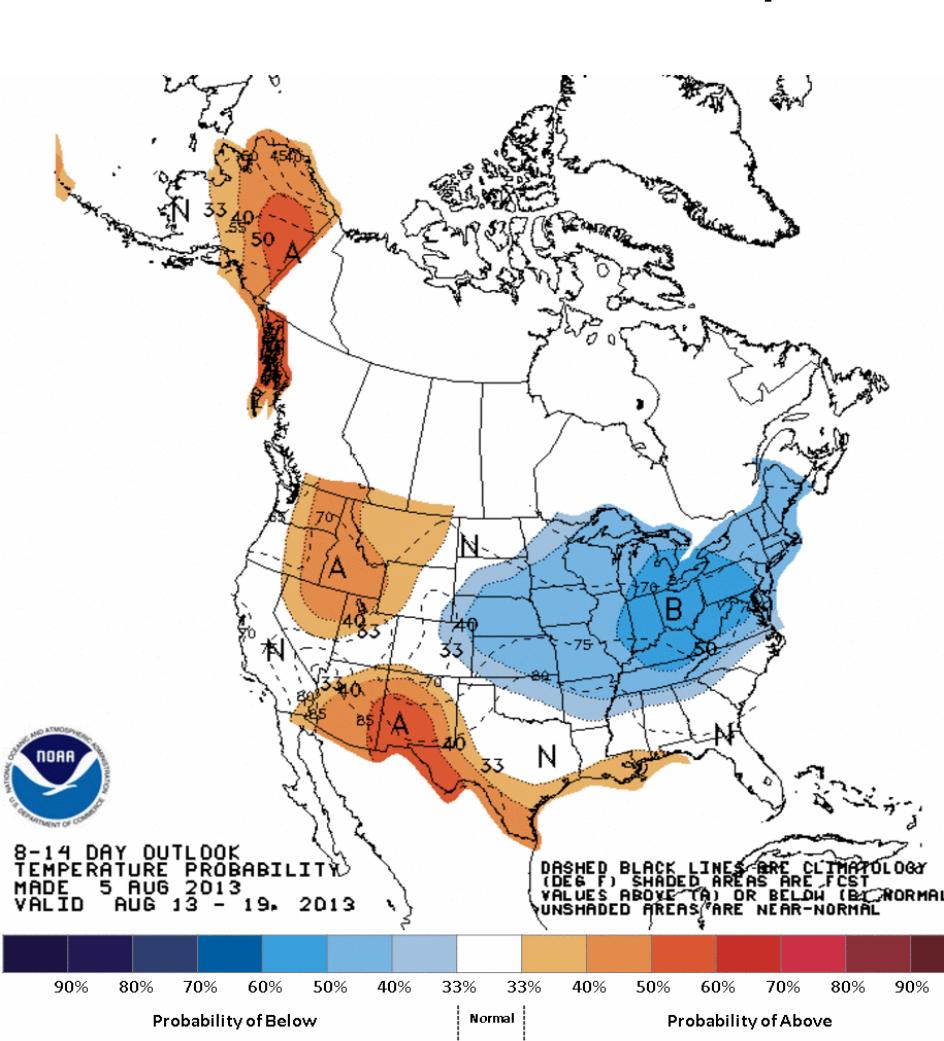
NOAA

Origin of Tropical Cyclones





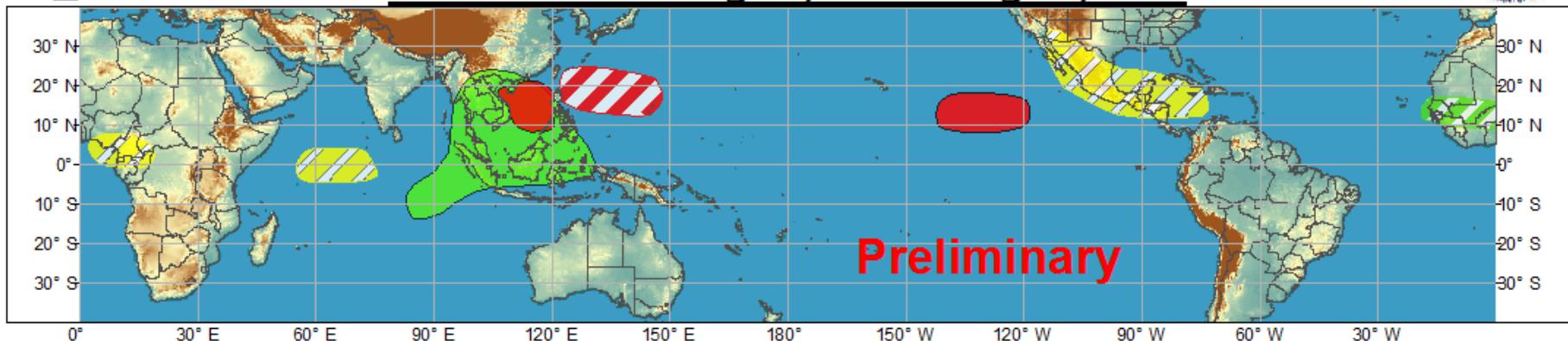
Week 2 – Temperature and Precipitation



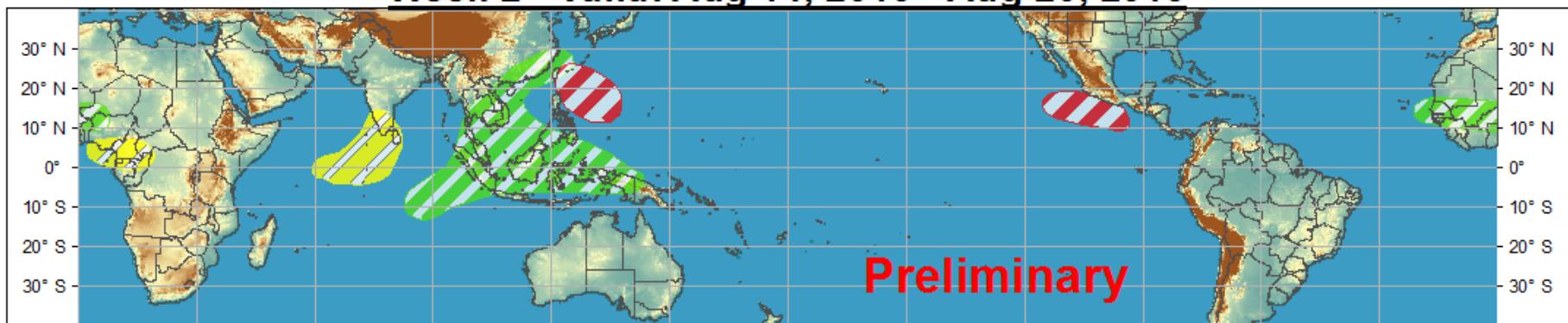


Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Aug 07, 2013 - Aug 13, 2013



Week 2 - Valid: Aug 14, 2013 - Aug 20, 2013



Preliminary

Produced: 08/06/2013

Forecaster: Pugh

	Confidence		Produced: 0
	High	Moderate	Forecasts
Tropical Cyclone Formation			Development of a tropical cyclone that eventually reaches tropical storm/cyclone strength.
Above-average rainfall			Weekly total rainfall in the upper third of the historical range.
Below-average rainfall			Weekly total rainfall in the lower third of the historical range.
Above-normal temperatures			7-day mean temperatures in the upper third of the historical range.
Below-normal temperatures			7-day mean temperatures in the lower third of the historical range.

Product is updated once per week. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.

